

DRAFT

Name:

Address:

Site Name:

SITE INVESTIGATION REPORT SITE:

PROJECT CODE:

CHECKLIST LOCATION:

SUBMITTAL DATE:

Section 7 "Remediation Regulations"

7.03A List specific objectives of the SIR related to characterization of the release, impacts of the release and remedy.

7.03B Information reported in the Notification Of Release. Information regarding short-term response, if applicable.

7.03C Documentation of any past incidents or releases.

7.03D List of prior property owners and operators, as well as sequencing of property transfers and time periods of occupancy.

7.03E Previously existing info that characterizes the contaminated site and all info that led to the discovery of the site.

7.03F Current uses and zoning of the contaminated site, including brief statements of operations, processes employed, waste generated, hazardous materials handled, and any residential activities on the site, if applicable.

7.03G Locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map.

7.03H A site plan, to scale, showing:

Buildings

Activities

Structures

North Arrow

Wells

UIC Systems, septic tanks, UST, piping and other underground structures

Outdoor hazardous materials storage and handling areas

Extent of paved areas

Location of environmental samples previously taken

Waste management and disposal areas

Property Lines

7.03I General characterization of the property surrounding the area including:

Location and distance to any surface water bodies within 500 ft of the site

Location and distance to any environmentally sensitive areas within 500 ft of the site

Actual sources of potable water for all properties immediately abutting the site

Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site

Determination as to whether the release impacts any off-site area utilized for residential or industrial/commercial property or both

Determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA area

7.03J Classification of surface and ground water at the site that could be impacted by a release.

7.03K Description of the contamination from the release, including:

Free Liquids

Concentrations of hazardous substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives

Impact to environmentally sensitive areas

Contamination of man-made structures

Odors or stained soil

Stressed Vegetation

Presence of excavated or stockpiled material and an estimate of its total volume

Environmental sampling locations, procedures and copies of the results of any analytical testing at the site

List of hazardous substances at the site

7.03L The concentration gradients of hazardous substances throughout the site for each media impacted by the release.

7.03M Methodology and results of any investigation conducted to determine background concentrations of hazardous substances identified at the contaminated site.

7.03N Listing and evaluation of the site specific hydro geological properties which could influence the migration of hazardous substances throughout and away from the site, including:

Depth to GW

Presence and effects of both the natural and man-made barriers to and conduits for contaminant migration

Characterization of bedrock

GW contours, flow rates and gradients throughout the site

7.030 Characterization of the topography and surface water and run-off flow patterns, including the flooding potential.

7.03P Potential for hazardous substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site.

7.03Q The potential for entrainment of hazardous substances from the site by wind or erosion actions.

7.03R Detailed protocols for all fate and transport models used in the SI.

7.03S Complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the SI.

7.03T Construction plans and development procedures for all monitoring wells.

7.03U Procedures for the handling, storage and disposal of wastes derived from and during the investigation.

7.03V QA/QC evaluation summary report for sample handling and analytical procedures (chain-of-custody and sample preservation techniques).

7.03W Any other site-specific factor, that the Director believes, is necessary to make an accurate decision as to the appropriate remedial action to be taken at the site.

7.04 Development of Remedial Alternatives: SIR must contain a minimum of 2 remedial alternatives other than no action/natural attenuation, unless waived by the Department.

7.05 Certification Requirements: SIR and all associated progress reports must include the following statements signed by an authorized representative of the party:

Certify completeness and accuracy of the information contained

Certify that the report is a complete and accurate representation of the site and the release and contains all known facts surrounding the release